Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the Application:

Listing of Claims:

Claims 1-8: CANCELLED

9. (Currently Amended) A monitoring device for energy storage batteries comprising:

a device for measuring battery temperature; and

a computation device for determining the charge drawn by an energy storage battery starting from an initial state of charge at the start of the drawing of the charge;

wherein the computation device is designed to carry out a method comprising:

determining the charge drawn as a function of an exponential function ~~with a time constant and~~ of a charging time from the start of the drawing of the charge, wherein the exponential function includes a time constant ~~is~~ defined at least as a function of the energy storage battery type and of the temperature of the electrolyte measured by the device for measuring battery temperature.

10. CANCELLED

11. (Currently Amended) A computer program comprising:

computer program code designed to carry out a method when the computer program is run using a processor device, the method comprising:

determining the charge drawn by an energy storage battery as a function of an exponential function ~~with a time constant and~~ of a charging time from the start of the drawing of the charge, wherein the exponential function includes a time constant ~~is~~ defined at least as a function of the energy storage battery type and of the temperature of the electrolyte measured by a device for measuring battery temperature;

wherein the computer program is a program file stored on a data storage medium.